

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A base station apparatus comprising:

a communication unit which communicates with a terminal apparatus at variable transmission rates;

a channel allocation unit which allocates a channel to the terminal apparatus over a predetermined period;

a change planning unit which plans timing for changing a transmission rate for the terminal apparatus in the channel-allocated period; and

a change determination unit which determines whether or not it perform the change of the transmission rate for the terminal apparatus, based on a remaining period occurring between a change in the transmission rate planned by the change planning unit and an end of the channel-allocated period.
2. (Original) The base station apparatus according to claim 1, further comprising a link quality derivation unit which derives link quality with respect to the terminal apparatus, wherein

the change determination unit derives a remaining period of the channel for the case of changing the transmission rate, based on a length of the channel-allocated period and the planned timing for changing the transmission rate, and further determines to perform the change of the transmission rate based on the derived link quality depending on the derived remaining period of the channel.
3. (Original) The base station apparatus according to claim 2, wherein

for the link quality with respect to the terminal apparatus, the link quality derivation unit measures link quality based on a signal received from the terminal apparatus.

4. (Original) The base station apparatus according to claim 2, wherein
for the link quality with respect to the terminal apparatus, the link quality derivation unit
detects information on link quality which is included in a signal received from the terminal
apparatus.

5. (Cancelled).

6. (Previously Presented) A transmission rate changing method comprising:
allocating a channel to a terminal apparatus over a predetermined period;
planning timing for changing a transmission rate for the terminal apparatus in the
channel-allocated period; and
determining whether or not to change the transmission rate at the planned timing based
on a remaining period occurring between a planned change in the transmission rate and an end of
the channel-allocated period.

7. (Previously Presented) The transmission rate changing method according to
claim 6, further comprising deriving link quality with respect to the terminal apparatus, wherein
the determining includes deriving the remaining period of the channel for the case of
changing the transmission rate from a length of the channel-allocated period and the planned
timing for changing the transmission rate, and includes determining whether or not to perform
the change of the transmission rate based on the derived link quality depending on the derived
remaining period of the channel.

8. (Original) The transmission rate changing method according to claim 7, wherein
in deriving the link quality with respect to the terminal apparatus, link quality based on a
signal received from the terminal apparatus is measured as the link quality with respect to the
terminal apparatus.

9. (Original) The transmission rate changing method according to claim 7, wherein in deriving the link quality with respect to the terminal apparatus, information on link quality included in a signal received from the terminal apparatus is detected as the link quality with respect to the terminal apparatus.

10. (Previously Presented) A recording medium storing a program which makes a computer execute:

allocating a channel to a terminal apparatus via a wireless network over a predetermined period;

planning timing for changing a transmission rate for the terminal apparatus in the channel-allocated period; and

determining whether or not to change the transmission rate at the planned timing based on a remaining period occurring between a planned change in the transmission rate and an end of the channel-allocated period.

11. (Previously Presented) The recording medium according to claim 10, which further makes a computer execute: deriving link quality with respect to the terminal apparatus via the wireless network, wherein

the determining includes deriving the remaining period of the channel for the case of changing the transmission rate from a length of the channel-allocated period and the planned timing for changing the transmission rate, and includes determining whether or not to perform the change of the transmission rate based on the derived link quality depending on the derived remaining period of the channel.

12. (Previously Presented) The recording medium according to claim 11, wherein

in deriving the link quality with respect to the terminal apparatus via the wireless network, link quality based on a signal received from the terminal apparatus via the wireless network is measured as the link quality with respect to the terminal apparatus.

13. (Previously Presented) The recording medium according to claim 11, wherein in deriving the link quality with respect to the terminal apparatus via the wireless network, information on link quality included in a signal received from the terminal apparatus via the wireless network is detected as the link quality with respect to the terminal apparatus.

14. (New) A base station comprising:

- a communication unit which communicates with a terminal apparatus at variable transmission rates;
- a channel allocation unit which allocates a channel to the terminal apparatus over a predetermined period;
- a change planning unit which plans timing for changing a transmission rate for the terminal apparatus in the channel-allocated period; and
- a change determination unit which determines to change the transmission rate for the terminal apparatus if a remaining period occurring between a change in the transmission rate planned by the change planning unit and an end of the channel-allocated period is equal to or greater than a threshold value, and which determines not to change the transmission rate for the terminal apparatus if the remaining period occurring between a change in the transmission rate planned by the change planning unit and an end of the channel-allocated period is below the threshold value.